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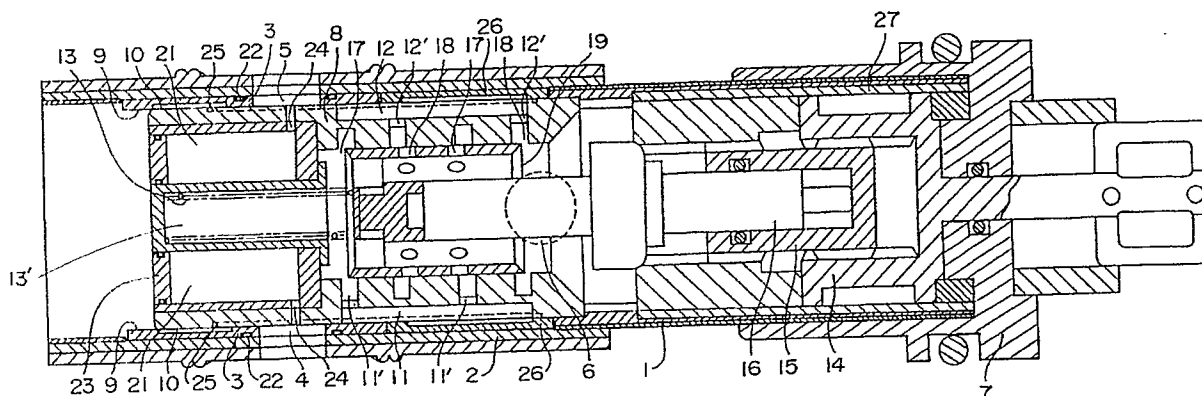
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(54) **Switching valve for mixing hot and cold waters using lubricant tank.**

(57) A valve has a cylindrical lubricant tank (21) having a lubricant outlet (24) opened at the sliding surface (10) of a switching valve (8) in a valve body, and a movable cover (23) slidably engaged with one side of the cylindrical lubricant tank, the movable cover so disposed as to be pressurized by hydraulic

pressure of hot, cold water in the valve body to directly supply necessary lubricant to the sliding surface of the switching valve, thereby always readily sliding to open or close the switching valve.

Fig. 1



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# EUROPEAN SEARCH REPORT

Application Number

EP 90 30 4617

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
X	US-A-3456677 (MONGERSON) * column 1, lines 24 - 27 *	1	F16K3/36 F16K11/078
A	* column 3, lines 52 - 65; figures 1, 2 * * figures 1, 2 *	3, 4, 6-9, 16-19	
A	US-A-3314442 (VOLPIN) * claim 1; figure 2 *	1-3	
A	DE-A-3533655 (HANSA METALLWERKE) * claim 17 *	2, 3	
A	US-A-3661180 (LYON) * figures 1-4 *	9-13	
A	EP-A-0098378 (IDEAL-STANDARD) * claim 3; figure 2 *	10-14, 17	
A	FR-A-1424952 (STANDARD SCREW) * claim 1 *	1	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			F16K
The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 15 MARCH 1991	Examiner SCHLABBACH M.
<b>CATEGORY OF CITED DOCUMENTS</b> X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			